

# THE UNITED STATES OF AMERICA

18#I Technology Holding Company, IIC.

**PLOTENS**, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS IFROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, SE CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR NOT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84)

#### SOYBEAN

#### 'DP 4748 S'

In Testimon Marcest, I have hereunto set my hand and caused the seal of the Plant Insisty Acotection Office to be affixed at the City of Washington, D.C. this twenty-third day of August, in the year two thousand and four.

Benze

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service Greman Spriculture

Soybean Breeder

## **EXHIBIT A**

DSPL Technology Holding
Delta and Pine Land Company, U.C.'s
Application For: (ET: 2/10/2014)

## DP 4748 S

## ORIGIN AND BREEDING HISTORY

SUMMER	1994	Original cross 94-536 made between 5024 and DP 3478.
		Parentage of DP 3478 is unknown. 5024 is a group IV
		sulfonylurea tolerant selection from the cross of A6785*(W20 x
		DP 415)
WINTER	1994-95	F <sub>1</sub> advanced to F <sub>2</sub> under lights in Costa Rica from cross 94-536. F <sub>2</sub>
		seed was bulked
SUMMER-		
FALL	1995	F <sub>2</sub> advanced to F <sub>4</sub> by the bulk pod method
WINTER	1995-96	F <sub>4</sub> seed was planted and about 200 single plant selections were
		threshed separately from cross 94-536
SUMMER	1996	About 200 F <sub>5</sub> plant rows were planted at Scott, MS and row
		96-01957 was selected for apparent yield and general adaptation,
		based on visual assessment. The plants in row 96-01957 were harvested in bulk and determined to be based in the for
		characteristics in "Exhibit C" of this application.
	1997	96-01957 was yield tested at Scott, MS and was advanced based
		on measured seed yield.
	1998	96-01957 was yield tested at 9 locations across the Southern US.
		96-01957 renamed to DPX 4748 and increased to 200 units of
		Foundation seed in Costa Rica.
	1999	DPX 4748 yield tested at 9 locations across the South and
		increased to about 4000 units
	2000	Released as DP 47485After four years of testing and three
		generations of seed increase, DP 4748 has been observed to be
		uniform and genetically stable for characteristics listed in Exhibit
		C of this application. No variants were observed.

par 11/22/00 9900287

#### **EXHIBIT B**

DELTAPINE SEED'S APPLICATION FOR DP 4748 S
DEPL Technology Holding (2014) 2004

#### **NOVELTY STATEMENT**

To our knowledge, DP 4748 most resembles CM 428 and A4922. Differences include but are not restricted to the following:

- 1. DP 4748 is tolerant to sulfonylurea herbicides whereas CM 428 and A4922 are intolerant.
- 2. DP 4748 has brown pod walls and A4922 has tan pod walls.
- 3. DP 4748 has tawny pubescence whereas CM 428 has light tawny pubescence. (81:10/16/2002)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

9900287

## **OBJECTIVE DESCRIPTION OF VARIETY**

SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME	DAD
Delta and Pine band Company	DPX 4748	DP 4748 <b>S</b>	1/22/00
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod.	P(RT: gao/Roo4)	EOR OFFIO	ارات ، AL USE ONLY
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod. 100 Main Street	u)	PVPO NUMBER	AL USE UNLY
Scott, MS 38772			
30,72			
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided,	iety in the features described place a zero in the first box w	below. When the numl hen number is 9 or less	per of significant digits (e.g., 0 9).
1. SEED SHAPE:			
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		(L/W ratio > 1.2; L/T rati (L/T ratio > 1.2; T/W >	
2. SEED COAT COLOR: (Mature Seed)			
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebs	oy'; 'Gasoy 17')		
4. SEED SIZE: (Mature Seed)			
1 6 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Bla	ack 6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		· · · · · · · · · · · · · · · · · · ·	
1 1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
8. SEED PROTEIN ELECTROPHORETIC BAND:	1		
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )			
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green win 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson')		'Woodworth'; 'Tracy')	
10. LEAFLET SHAPE:			
3 = Ovate	4 = Other (Specify)		

11. LEAFLET SIZE:	
1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
12. LEAF COLOR:	
1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
13. FLOWER COLOR:	
1 = White 2 = Purple 3 = White with purple throat	
14. POD COLOR: RECEIVED USDA-AMS-PVPO	
2 1 = Tan 2 = Brown 3 = Black	
15. PLANT PUBESCENCE COLOR: 99 MAY -5 P3:37	
2 1 = Gray 2 = Brown (Tawny)	
16. PLANT TYPES:	
1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
17. PLANT HABIT:	
1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
18. MATURITY GROUP:	-
0 7 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
BACTERIAL DISEASES:	
Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
Bacterial Blight (Pseudomonas glycinea)	
Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:	in sala Salahis
0 Brown Spot (Septoria glycines)	•
Frogeye Leaf Spot (Cercospora sojina)	
Race 1 Race 2 Race 3 Race 4 Race 5 1 Other (Specify)	
0. Target Spot (Corynespora cassiicola)	
Downy Mildew (Peronospora trifoliorum var. manshurica)	
O Powdery Mildew (Microsphaera diffusa)	1
Brown Stem Rot (Cephalosporium gregatum)	
Stem Canker (Diaporthe phaseolorum var. caulivora)	i. Kai

19.	DISEAS	SE REACTION:	(Enter 0 = Not Te	sted; 1 = Susceptible; 2 = F	Resistant) (Continued)					
	FUN	GAL DISEASES	S: (Continued)				990000			
	0	Pod and Stem	Blight (Diaporthe p	haseolorum var; sojae)			9900287			
•	0	Purple Seed S	tain <i>(Cercospora kik</i>	ruchii)						
	0	Rhizoctonia F	Root Rot (Rhizoctar	nia solani)						
		Phytophthora	Rot (Phytophthora	megasperma var. sojae)		·				
	1	Race 1	Race 2	Race 3	Race 4 Race 5	Race 6	Race 7			
		Race 8	Race 9	Other (Specify)	<u> </u>					
	VIRA	L DISEASES:								
	0	Bud Blight (To	obacco Ringspot Vii	rus)						
	0	Yellow Mosaid	Yellow Mosaic (Bean Yellow Mosaic Virus)							
	0	Cowpea Mosai	ic (Cowpea Chloroti	c Virus)	·					
	0	Pod Mottle (B	ean Pod Mottle Viru	ıs)						
	0	Seed Mottle (S	Soybean Mosaic Viri	12)						
	NEM	ATODE DISEA	SES:							
		Soybean Cyst	Nematode (Heteroa	lera glycines)						
		Race 1	Race 2	1 Race 3	Race 4 1 Other (S	Specify) Race 14				
	0	Lance Nemato	ode (Hoptolaimus Co	olombus)						
	1	Southern Roo	t Knot Nematode (//	Meloidogyne incognita)						
		Northern Roo	t Knot Nematode (//	Meloidogyne Hapla)						
	1	Peanut Root K	Cnot Nematode (Me	loidogyne arenaria)		•				
		Reniform Nem	natode ( <i>Rotylenchu</i>	lus reniformis)						
		OTHER DISE	ASE NOT ON FOR	M (Specify):	,					
20.		LOGICAL RES	SPONSES: (Enter 0	= Not Tested; 1 = Suscept	ible; 2 = Resistant)					
	2	Iron Chlorosis	on Calcareous Soil				•			
		Other (Specify	·/			<del></del>	·			
21.	INSECT	REACTION:	(Enter 0 = Not Test	ed; 1 = Susceptible; 2 = Re	sistant)	Burker State (A. Nobel et al.)				
٠	0	Mexican Bean	Beetle (Epilachna va							
	Mexican Bean Beetle (Epilachna varivestis)  2 Potato Leaf Hopper (Empoasca fabae)									
	Other (Specify)									
22.	INDICA	TE WHICH VA	RIETY MOST CLO	SELY RESEMBLES THA	T SUBMITTED.					
	CHAR	ACTER	NAME	OF VARIETY	CHARACTER	NAME OF	VARIETY			
Ė	lant Sha	ape	CM 428		Seed Coat Luster	CM 428				
l	eaf Sha	pe	CM 428		Seed Size	CM 428				
Ĺ	eaf Col	or	CM 428		Seed Shape	CM 428				
{	_eaf Size	:	CM 428		Seedling Pigmentation	A 4922				

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

	· · · · · · · · · · · · · · · · · · ·								and the second second
VARIETY	NO. OF DAYS MATURITY	LODGING	CM PLANT HEIGHT	LEAFLET SIZE SEED CONTENT		ITENT	SEED SIZE G/100	NO. SEEDS/	
·				CM Width	CM Length	% Protein	% Oii	SEEDS	POD
DP 4748 Submitted	130	2.1	87			34.8	20.3	15.8	
CM 428 Name of Similar Variety	129	1.9	77			34.9	20.8	14.6	

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidese activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

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#### **EXHIBIT D**

DEPTAPINE SEED'S APPLICATION FOR DP 4748 5

### **ADDITIONAL DESCRIPTION**

DP 4748 is an F<sub>3</sub> selection composited in the F<sub>5</sub> generation from the cross 5024 x DP 3478. 5024 is a group IV sulfonylurea tolerant selection from the cross A 5979\*[A 6785 x (W 20 x DP 415)]. It is a mid group IV maturity and is being released because of its excellent yield potential compared to other varieties of similar maturity. DP 4748 plants are medium tall with white flowers, tawny pubescence and brown pods at maturity. Seeds are dull yellow with black hila averaging 2800 seed per pound. It is resistant to stem canker and field telerant to phytophthora root rot. It is susceptible to cyst and root knot nematodes.



Soybean Product Nomination Form

**DP 4748 S** 

C. TINIUS Soybean Project Leader December, 1999

#### **DP 4748 S**

#### **PRODUCT SUMMARY SHEET**

#### **KEY FEATURES**

Excellent yield potential

STS® gene for tolerance to sulfonylurea herbicides

Excellent resistance to stem canker Tall, indeterminate growth habit

#### **PRODUCT DESCRIPTION**

Trait	<u>Phenotype</u>		
Relative maturity	4.7		
Roundup Ready™	No		•
STS®	Yes		
Flower color	White		(
Pubescence color	Tawny		(
Hilum color	Black		,
Podwall color	Brown		•
Seed size	2800/lb		٦
Seed protein	Untested		
Seed oil	Untested		
Peroxidase reaction -	- Untested- (Tested and found to be		ı
Seedcoat luster	Dull high, as denoted on	* 5	<u>-</u> ۱
Hypocotyl color	Bronze Exhibit Log this application	עצטו	' :
Seed shape	Dull high, as denoted on Bronze Exhibit Cost this applicate Spherical flattened applicant's request	t)	(
Leaflet size	1610 Glidini	-/	
Leaflet color	Medium green		
Canopy	Closed		5
Growth habit	Indeterminate		-
SCN race 3	Susceptible		3
SCN race 14	Susceptible		•
Common root knot	Susceptible		
Peanut root knot	Susceptible		1
Javanese root knot	Untested		-
Lance nematode	Untested		(
Frogeye leafspot	Moderately susceptible		i
Sudden death	Untested		ŗ
Stem canker	Resistant		1
Phytophthora root rot -	-Untested Described as Susceptible		
Red crown rot	Untested to PRR to match description	M	
Chloride tolerance	Untested thated on Exhibit c of the		

#### **BREEDER'S SUBJECTIVE RATINGS**

Field emergence	Excellent
Early vigor	Good
Narrow rows	Good
Wide rows	Excellent
No-till	Excellent
Late planting	Excellent
Poorly-drained soils	Excellent
Shatter resistance	Excellent

#### PRODUCT IDENTITY

Line selected by:

Dr. Grover Shannon

Former designation:

96-01957

Pedigree: Areas of adaptation: DP 3571 S sib\*DP 3478 Midsouth and Southeast

Replace:

DP 3478

Complement:

**DP 4750 RR** 

Main competition: Most similar line: A4922

DP 4750 RR

#### YIELD HISTORY

Outyielded DP 3478 by 10% in 12 Midsouth trials Outyielded DP 3478 by 9% in 4 Southeast trials Yield rank was 1/48 over 8 locations in 1999 Yield rank was 1/24 over 8 locations in 1998 Yield rank was 5/48 over 1 location in 1997

#### KNOWN WEAKNESSES

Susceptible to cyst and root knot nematodes

Green stems at maturity in some environments

#### SEED STOCK STATUS

3,852 units of breeder seed at GFS

#### **ADDITIONAL DESCRIPTION**

Offtypes of each of the following traits may be exhibited in up to 1% of the plants of this variety: flower color, pubescence color and hila color.

Aerial Blight

#### **DP 4748 S**

#### PRODUCT PERFORMANCE

#### Combined data, all locations 1998-1999

	Yie	ELD	MAT	Hgt	LDG
	bu/ac	%3478	3		
DP 4748 S	51.6	110	1.3	37.2	2.6
DP 3478	46.9	100	0	34.2	2.3
A4922	44.3	94	-1.4	33.3	1.6
Locations	16		7	18	17

#### Data by region

#### Midsouth, all locations, 1998-1999

	YI	ELD	MAT	Hgt	Lpg
(87:2/10/2004) × DP 4748 S7	<u>bu/ac</u> <b>49.3</b>	<u>%347</u> 110	<u>'8</u> <b>1.9</b>	37.2	2.4
4DP 3478> A4922	44.7 42.4	100 95	0 -1.3	34.4 33.1	2.3 1.6
Locations	12		4	14	14

Southeast, all locations, 1998-1999

			<u> </u>			
		YII	ELD	MAT	HGT	LDG
	•	bu/ac	%347	78		
(A:2/10/2004)	DP 4748 S	58.5	109	0.5	37.0	3.3
	DP 3478	53.7	100	0	33.4	2.3
	A4922	50.1	93	-1.5	34.2	1.7
	Locations	4		3	4	3

In 13/16 research trials, DP 4748 S has exceeded the mean yield of the trial by 10% or greater.

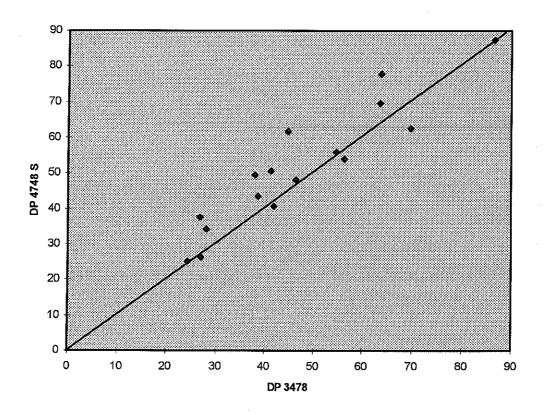
In 13/16 research trials, DP 4748 S has been among the top 1/3 of entries for yield.

In 8/16 research trials, DP 4748 S has been the highest-yielding entry in the trial.

In both 1998 and 1999, DP 4748 S was the highest-yielding entry in the trial over all locations.

# DP 4748 S PRODUCT PERFORMANCE

DP 4748 S vs DP 3478



This scattergram depicts the head-to-head performance of DP 4748 S against DP 3478 in 16 research trials conducted during 1998 and 1999. The axes are graduated in bushels/acre, and a point indicates the yields of the two varieties at a given environment. DP 4748 S has out-yielded DP 3478 12/16 times.

## DP 4748 S

#### **DISEASE REACTION DOCUMENTATION**

Soybean Cyst Nematode (Heterodera glycines)

Data from Dr. Lawrence Young, USDA, Jackson, Tennessee

(81:2/10/2004)

	Race 3	Race 14
Line	Score	Score
DP 4748 S	4.3	4.0
Res. Check	1.0	2.2
Sus. Check	4.8	4.7

Scale: 1= 0 to 5 females/plant, 2= 6 to 10, 3= 11 to 20, 4 = 21-40, 5 = more than 40 females/plant

Root Knot Nematode (Meloidogyne incognita and M. arenaria)

Data from Dr. Robert Kinloch, Univ. of Florida, Jay, Florida

(61:2**/m/2004**)

	IVI.I.	M.a.
Line	Score	Score
\DP 4748 S/	4.0	1.5
Res. Check	2.0	1.0
Sus. Check	3.5	3.5

Scale:1= no galling, 5= very severe galling

Stem Canker (Diaporthe phaseolorum (Cooke & Ellis) Sacc. f. sp. meridionalis (Morgan-Jones)

Data from Dr. Grover Shannon, Deltapine Seed, Scott, Mississippi

(81:2/1d2004)

	1998	1999
Line	Score	Score
DP 4748 S'	1.0	1.0
DP 3478	1.0	1.0
A4922	5.0	4.0

Scale: 1= no symptoms, 5= very severe symptoms

U.S. DEPARTMENT OF AGRICULTURE

ORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Delta and Pine Land Company	OR EXPERIMENTAL NUMBER	
d/b/a Doltapine Seed PSPL Technology Holding	DPX 4748	DP 4748 5
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
100 Main Street Scott, MS 38772	(601) 742-3351 (662) 4141	(691), 747-3182 (662) 742-3182 (81:2/b)
	7. PVPO NUMBER	9
	9900287	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.		
		. •
<ol> <li>Is the applicant (individual or company) a U.S. national or U.S. based co- if no, give name of country</li> </ol>	ompany?	YES NO
andrewi in gradina karakanya da kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatè Kabupatèn kabupatèn	O If no, please answer one of the fo	ollowing:
a. If original rights to variety were owned by individual(s), is (are) the ori	iginal owner(s) a U.S. national(s)?	in the second se
☐ YES ☐ N	O If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the	original owner(s) a U.S. based company	?
	If no, give name of country	
11. Additional explanation on ownership (if needed, use reverse for extra sp	pace);	
	•	
PLEASE NOTE:		
Plant variety protection can be afforded only to owners (not licensees) who meet on	e of the following criteria:	
1. If the rights to the variety are owned by the original breeder, that person must be which affords similar protection to nationals of the U.S. for the same genus and s	a U.S. national, national of a UPOV membespecies.	er country, or national of a country
2. If the rights to the variety are owned by the company which employed the origin member country, or owned by nationals of a country which affords similar protections.	al breeder(s), the company must be U.S. bas ction to nationals of the U.S. for the same g	sed, owned by nationals of a UPOV enus and species.
3. If the applicant is an owner who is not the original owner, both the original owner		
The original breeder/owner may be the individual or company who directed final br		

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